

1653



1600

## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/08/852,666

TIME: 15:00:35

Input Set : A:\54615.8001.US02.ST25.txt

Output Set : N:\CRF4\12272002\H852666.raw

3 <110> APPLICANT: CHADA, Kiran K.  
 4 ASHAR, Hena  
 5 TKACHENKO, Alex  
 6 ZHOU, Xianjin  
 8 <120> TITLE OF INVENTION: HMGI PROTEINS IN CANCER AND OBESITY  
 10 <130> FILE REFERENCE: 54615.8001.US02  
 12 <140> CURRENT APPLICATION NUMBER: US 08/852,666  
 13 <141> CURRENT FILING DATE: 1997-05-07  
 15 <150> PRIOR APPLICATION NUMBER: US 08/679,529  
 16 <151> PRIOR FILING DATE: 1996-07-12  
 18 <160> NUMBER OF SEQ ID NOS: 54  
 20 <170> SOFTWARE: PatentIn version 3.1  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 39  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Artificial Sequence  
 27 <220> FEATURE:  
 28 <223> OTHER INFORMATION: Rearrangements of 12q15 in human lipomas which disrupt the  
 HMGI-C  
 29 gene and produce chimeric transcripts  
 31 <220> FEATURE:  
 32 <221> NAME/KEY: CDS  
 33 <222> LOCATION: (1)..(39)  
 34 <223> OTHER INFORMATION:  
 W--> 36 <400> 1  
 37 cca aga ggc aga cct agg aaa tgg cca caa caa gtc gtt 39  
 38 Pro Arg Gly Arg Pro Arg Lys Trp Pro Gln Gln Val Val  
 39 1 5 10  
 42 <210> SEQ ID NO: 2  
 43 <211> LENGTH: 13  
 44 <212> TYPE: PRT  
 45 <213> ORGANISM: Artificial Sequence  
 47 <220> FEATURE:  
 48 <223> OTHER INFORMATION: Rearrangements of 12q15 in human lipomas which disrupt the  
 HMGI-C  
 49 gene and produce chimeric transcripts  
 51 <400> SEQUENCE: 2  
 53 Pro Arg Gly Arg Pro Arg Lys Trp Pro Gln Gln Val Val  
 54 1 5 10  
 57 <210> SEQ ID NO: 3  
 58 <211> LENGTH: 39  
 59 <212> TYPE: DNA  
 60 <213> ORGANISM: Artificial Sequence  
 62 <220> FEATURE:

ENTERED

63 <223> OTHER INFORMATION: Rearrangements of 12q15 in human lipomas which disrupt the  
HMGI-C

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/852,666

DATE: 12/27/2002

TIME: 15:00:35

Input Set : A:\54615.8001.US02.ST25.txt

Output Set: N:\CRF4\12272002\H852666.raw

```

64      gene and produce chimeric transcripts
66 <220> FEATURE:
67 <221> NAME/KEY: CDS
68 <222> LOCATION: (1)..(39)
69 <223> OTHER INFORMATION:
W--> 71 <400> 3
72 cca aga ggc aga cct agg aaa tgg aat act ctg gag cag
73 Pro Arg Gly Arg Pro Arg Lys Trp Asn Thr Leu Glu Gln
74 1          5          10
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 13
79 <212> TYPE: PRT
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Rearrangements of 12q15 in human lipomas which disrupt the
HMGI-C
84      gene and produce chimeric transcripts
86 <400> SEQUENCE: 4
88 Pro Arg Gly Arg Pro Arg Lys Trp Asn Thr Leu Glu Gln
89 1          5          10
92 <210> SEQ ID NO: 5
93 <211> LENGTH: 39
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: Rearrangements of 12q15 in human lipomas which disrupt the
HMGI-C
99      gene and produce chimeric transcripts
101 <220> FEATURE:
102 <221> NAME/KEY: CDS
103 <222> LOCATION: (1)..(39)
104 <223> OTHER INFORMATION:
W--> 106 <400> 5
107 cca aga ggc aga cct agg aaa tgg ccc ggg ctc cag aag
108 Pro Arg Gly Arg Pro Arg Lys Trp Pro Gly Leu Gln Lys
109 1          5          10
112 <210> SEQ ID NO: 6
113 <211> LENGTH: 13
114 <212> TYPE: PRT
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Rearrangements of 12q15 in human lipomas which disrupt the
HMGI-C
119      gene and produce chimeric transcripts
121 <400> SEQUENCE: 6
123 Pro Arg Gly Arg Pro Arg Lys Trp Pro Gly Leu Gln Lys
124 1          5          10
127 <210> SEQ ID NO: 7
128 <211> LENGTH: 54
129 <212> TYPE: PRT
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:

```

## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/08/852,666

TIME: 15:00:35

Input Set : A:\54615.8001.US02.ST25.txt

Output Set: N:\CRF4\12272002\H852666.raw

133 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C which

134 encodes transcriptional regulatory domains: chromosome 3

136 <220> FEATURE:

137 <221> NAME/KEY: MISC\_FEATURE

138 <222> LOCATION: (10)..(18)

139 <223> OTHER INFORMATION: 9 unspecified amino acids between two sequences

142 <220> FEATURE:

143 <221> NAME/KEY: MISC\_FEATURE

144 <222> LOCATION: (36)..(46)

145 <223> OTHER INFORMATION: 11 unspecified amino acids between two sequences

148 <400> SEQUENCE: 7

W--> 150 Gln Cys Asn Val Cys Ser Lys Pro Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa

151 1 5 10 15

W--> 154 Xaa Xaa Lys Ala Tyr His Pro His Cys Phe Thr Cys Val Met Cys His

155 20 25 30

W--> 158 Arg Ser Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Ile

159 35 40 45

162 His Cys Ile Glu Asp Phe

163 50

166 <210> SEQ ID NO: 8

167 <211> LENGTH: 54

168 <212> TYPE: PRT

169 <213> ORGANISM: Artificial Sequence

171 <220> FEATURE:

172 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C which

173 encodes transcriptional regulatory domains:zyxin

175 <220> FEATURE:

176 <221> NAME/KEY: MISC\_FEATURE

177 <222> LOCATION: (10)..(18)

178 <223> OTHER INFORMATION: 9 unspecified amino acids between the two sequences

181 <220> FEATURE:

182 <221> NAME/KEY: MISC\_FEATURE

183 <222> LOCATION: (36)..(46)

184 <223> OTHER INFORMATION: 11 unspecified amino acids between the two sequences

187 <400> SEQUENCE: 8

W--> 189 Lys Cys Ser Val Cys Lys Gln Thr Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa

190 1 5 10 15

W--> 193 Xaa Xaa Asn Ser Tyr His Pro Gln Cys Phe Thr Cys Val Met Cys His

194 20 25 30

W--> 197 Thr Pro Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Gln Pro

198 35 40 45

201 His Cys Val Asp Asp Tyr

202 50

205 <210> SEQ ID NO: 9

206 <211> LENGTH: 55

207 <212> TYPE: PRT

208 <213> ORGANISM: Artificial Sequence

210 <220> FEATURE:

211 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C which

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/08/852,666

DATE: 12/27/2002

TIME: 15:00:35

Input Set : A:\54615.8001.US02.ST25.txt

Output Set: N:\CRF4\12272002\H852666.raw

212 encodes transcriptional regulatory domains: apteous

214 <220> FEATURE:

215 <221> NAME/KEY: MISC\_FEATURE

216 <222> LOCATION: (10)..(19)

217 <223> OTHER INFORMATION: 10 unspecified amino acids between the two sequences

220 <220> FEATURE:

221 <221> NAME/KEY: MISC\_FEATURE

222 <222> LOCATION: (37)..(47)

223 <223> OTHER INFORMATION: 11 unspecified amino acids between the two sequences

226 <400> SEQUENCE: 9

W--> 228 Asp Cys Ser Gly Cys Gly Arg Gln Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa

229 1 5 10 15

W--> 232 Xaa Xaa Xaa Lys Arg Trp His Ala Ser Cys Leu Lys Cys Tyr Ala Cys

233 20 25 30

W--> 236 Arg Gln Pro Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Asn

237 35 40 45

240 Ile Tyr Cys Lys Asn Asp Tyr

241 50 55

244 <210> SEQ ID NO: 10

245 <211> LENGTH: 55

246 <212> TYPE: PRT

247 <213> ORGANISM: Artificial sequence

249 <220> FEATURE:

250 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C

which

251 encodes transcriptional regulatory domains: Lh2

253 <220> FEATURE:

254 <221> NAME/KEY: MISC\_FEATURE

255 <222> LOCATION: (10)..(19)

256 <223> OTHER INFORMATION: 10 unspecified amino acids between the two sequences

259 <220> FEATURE:

260 <221> NAME/KEY: MISC\_FEATURE

261 <222> LOCATION: (37)..(47)

262 <223> OTHER INFORMATION: 11 unspecified amino acids between the two sequences

265 <400> SEQUENCE: 10

W--> 267 Leu Cys Ala Gly Cys Gly Gly Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa

268 1 5 10 15

W--> 271 Xaa Xaa Xaa Lys Gln Trp His Met Arg Cys Leu Lys Cys Cys Glu Cys

272 20 25 30

W--> 275 Lys Leu Asn Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ser

276 35 40 45

279 Ile Tyr Cys Lys Glu Asp Tyr

280 50 55

283 <210> SEQ ID NO: 11

284 <211> LENGTH: 53

285 <212> TYPE: PRT

286 <213> ORGANISM: Artificial Sequence

288 <220> FEATURE:

289 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C

which

290 encodes transcriptional regulatory domains: Lin-11

## RAW SEQUENCE LISTING

DATE: 12/27/2002

PATENT APPLICATION: US/08/852,666

TIME: 15:00:35

Input Set : A:\54615.8001.US02.ST25.txt

Output Set: N:\CRF4\12272002\H852666.raw

```

292 <220> FEATURE:
293 <221> NAME/KEY: MISC_FEATURE
294 <222> LOCATION: (10)..(19)
295 <223> OTHER INFORMATION: 10 unspecified amino acids between the two sequences
298 <220> FEATURE:
299 <221> NAME/KEY: MISC_FEATURE
300 <222> LOCATION: (37)..(45)
301 <223> OTHER INFORMATION: 9 unspecified amino acids between the two sequences
304 <400> SEQUENCE: 11
W--> 306 Glu Cys Ala Ala Cys Ala Gln Pro Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
307 1 5 10 15
W--> 310 Xaa Xaa Xaa Lys Cys Trp His Gln Ser Cys Leu Arg Cys Cys Asp Cys
311 20 25 30
W--> 314 Arg Ala Pro Met Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Leu Ile Leu
315 35 40 45
318 Cys Lys Thr Asp Phe
319 50
322 <210> SEQ ID NO: 12
323 <211> LENGTH: 56
324 <212> TYPE: PRT
325 <213> ORGANISM: Artificial Sequence
327 <220> FEATURE:
328 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C
which
329 encodes transcriptional regulatory domains: RBTN-1
331 <220> FEATURE:
332 <221> NAME/KEY: MISC_FEATURE
333 <222> LOCATION: (10)..(19)
334 <223> OTHER INFORMATION: 10 unspecified amino acids between the two sequences
337 <220> FEATURE:
338 <221> NAME/KEY: MISC_FEATURE
339 <222> LOCATION: (37)..(48)
340 <223> OTHER INFORMATION: 12 unspecified amino acids between the two sequences
343 <400> SEQUENCE: 12
W--> 345 Gly Cys Ala Gly Cys Asn Arg Lys Ile Xaa Xaa Xaa Xaa Xaa Xaa Xaa
346 1 5 10 15
W--> 349 Xaa Xaa Xaa Lys Tyr Trp His Glu Asp Cys Leu Lys Cys Ala Cys Cys
350 20 25 30
W--> 353 Asp Cys Arg Leu Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa
354 35 40 45
357 Leu Ile Leu Cys Arg Arg Asp Tyr
358 50 55
361 <210> SEQ ID NO: 13
362 <211> LENGTH: 62
363 <212> TYPE: PRT
364 <213> ORGANISM: Artificial Sequence
366 <220> FEATURE:
367 <223> OTHER INFORMATION: A novel sequence fused to the DNA binding domains of HMGI-C
which
368 encodes transcriptional regulatory domains: chromosome 3
370 <220> FEATURE:

```

**RAW SEQUENCE LISTING ERROR SUMMARY**  
 PATENT APPLICATION: **US/08/852,666**

DATE: 12/27/2002  
 TIME: 15:00:36

Input Set : A:\54615.8001.US02.ST25.txt  
 Output Set: N:\CRF4\12272002\H852666.raw

**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:7; Xaa Pos. 10,11,12,13,14,15,16,17,18,36,37,38,39,40,41,42,43,44,45  
 Seq#:7; Xaa Pos. 46  
 Seq#:8; Xaa Pos. 10,11,12,13,14,15,16,17,18,36,37,38,39,40,41,42,43,44,45  
 Seq#:8; Xaa Pos. 46  
 Seq#:9; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,37,38,39,40,41,42,43,44,45  
 Seq#:9; Xaa Pos. 46,47  
 Seq#:10; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,37,38,39,40,41,42,43,44,45  
 Seq#:10; Xaa Pos. 46,47  
 Seq#:11; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,37,38,39,40,41,42,43,44,45  
 Seq#:12; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,37,38,39,40,41,42,43,44,45  
 Seq#:12; Xaa Pos. 46,47,48  
 Seq#:13; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,42,43,44,45  
 Seq#:13; Xaa Pos. 46,47,48,49,50,51,52,53,54  
 Seq#:14; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,43,44,45  
 Seq#:14; Xaa Pos. 46,47,48,49,50,51,52,53,54,55,56  
 Seq#:15; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,20,37,38,39,40,41,42,43,44  
 Seq#:15; Xaa Pos. 45,46,47  
 Seq#:16; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,20,38,39,40,41,42,43,44,45  
 Seq#:16; Xaa Pos. 46,47,48  
 Seq#:17; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,20,38,39,40,41,42,43,44,45  
 Seq#:17; Xaa Pos. 46,47,48,49  
 Seq#:18; Xaa Pos. 10,11,12,13,14,15,16,17,18,19,20,38,39,40,41,42,43,44,45  
 Seq#:18; Xaa Pos. 46,47,48,49  
 Seq#:19; Xaa Pos. 2,3  
 Seq#:20; Xaa Pos. 2,3,5,6,8,9  
 Seq#:21; Xaa Pos. 2,3